

AGENDA REPORT

Agenda Item 5. C.

Approvals:

Dept. Head Manager

Admin. Asst.

BEACHES, PARKS & RECREATION COMMISSION Meeting Date: June 14, 2016

Department: Beaches, Park and Recreation

Prepared By: Pamela Passow, Assistant Beaches, Parks and Recreation Director

Subject: San Clemente Pier Presentation from Coastal Advisory Committee Meeting

Fiscal Impact: None.

Summary: At the April 12, 2016 Beaches, Parks and Recreation Commission meeting, Coastal

Advisory Committee representative, Commissioner Gates requested the presentation regarding the San Clemente Pier presented to the Coastal Advisory Committee on May 10, 2016 be provided to the Beaches, Parks and Recreation Commission. The

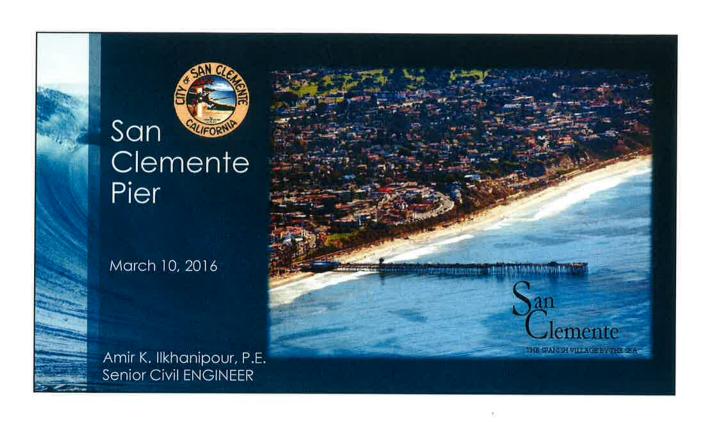
presentation is attached for Commission review.

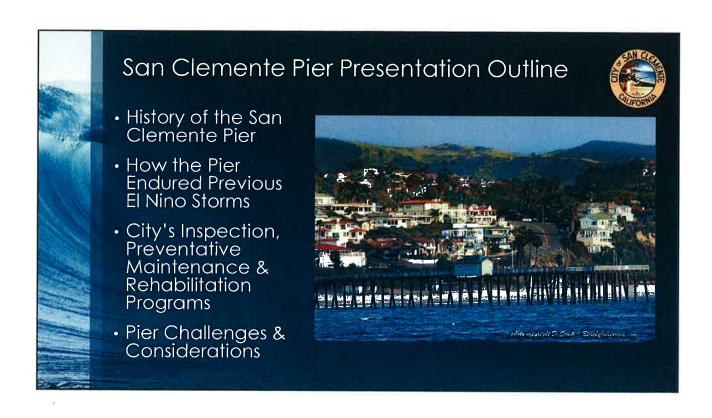
Recommended

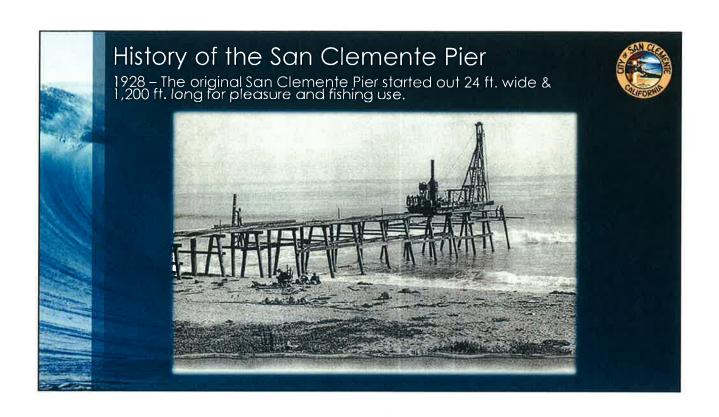
Action: None.

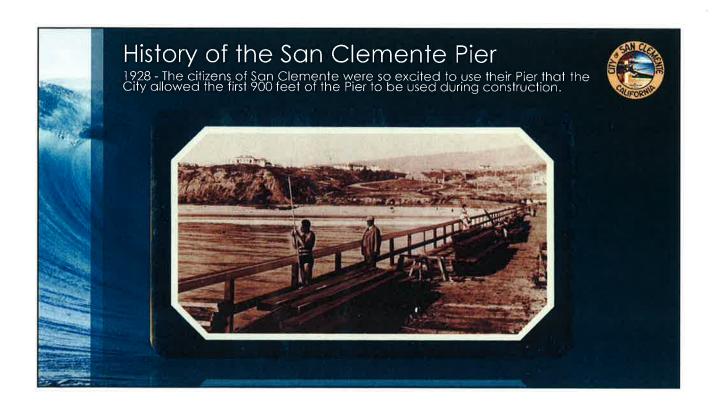
Attachments: San Clemente Pier Presentation dated March 10, 2016

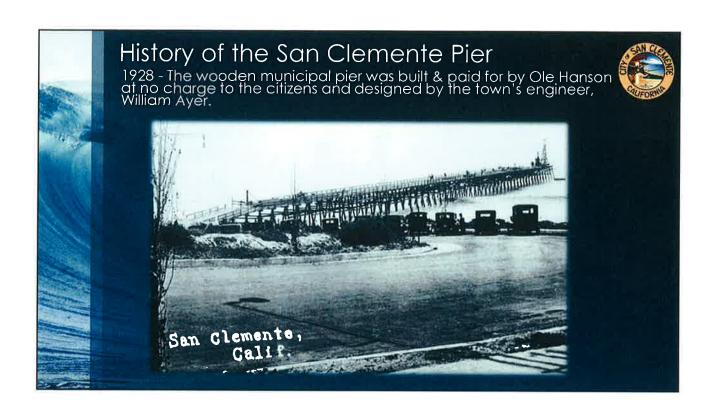
Notification: None.

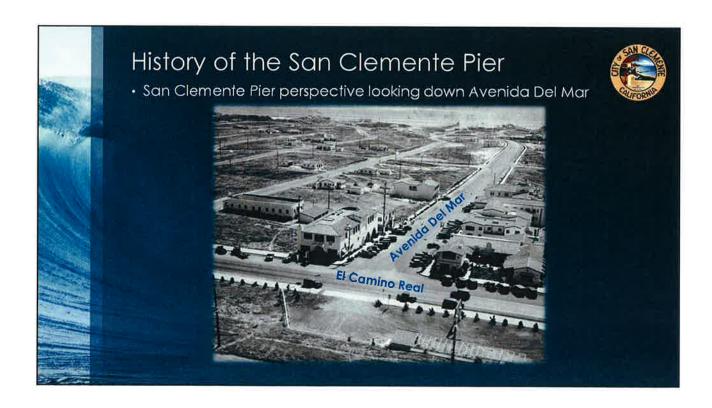


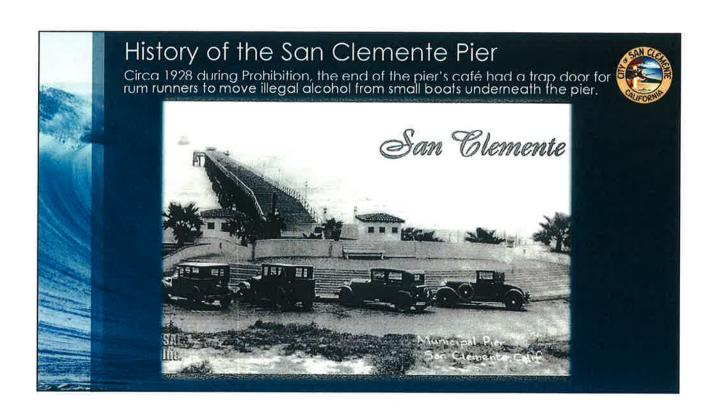


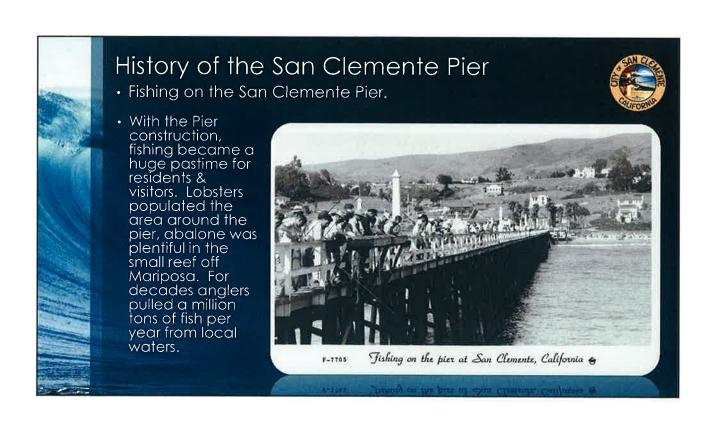


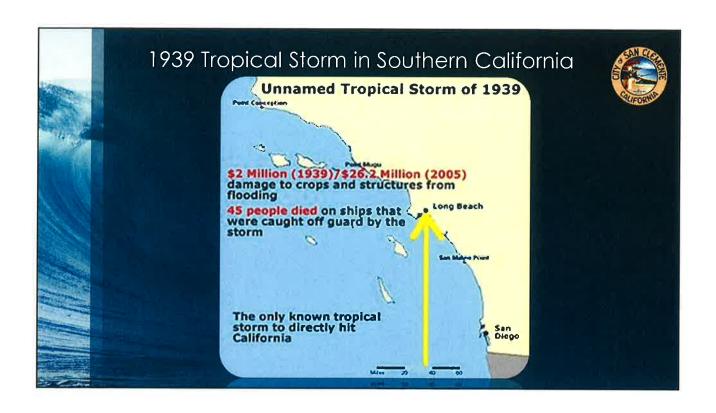


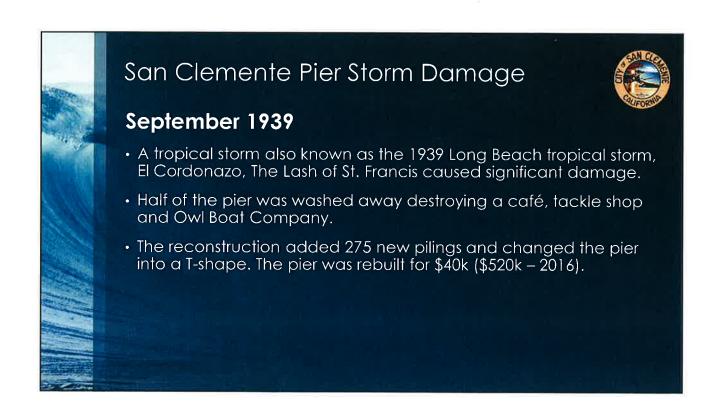


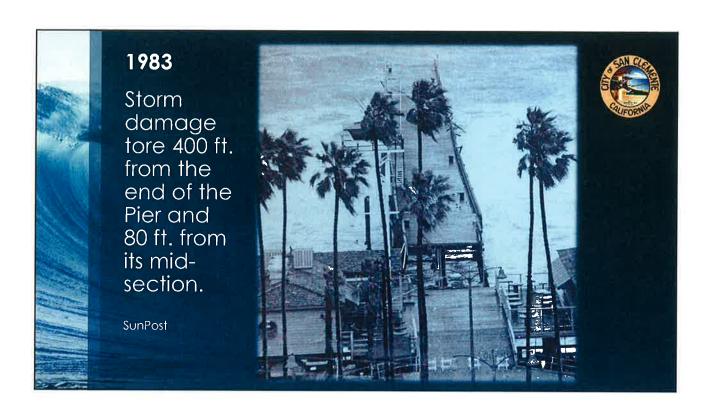


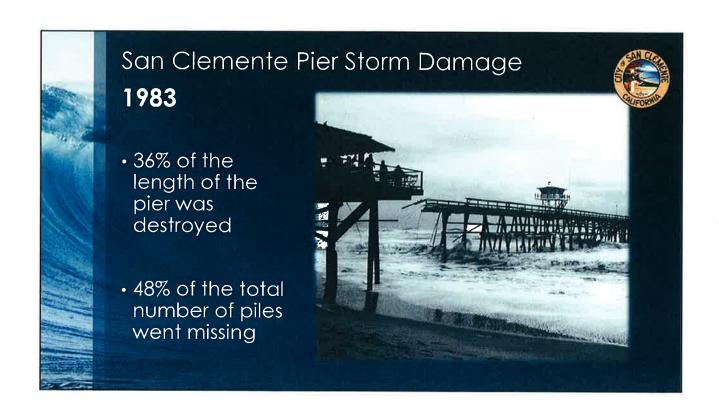


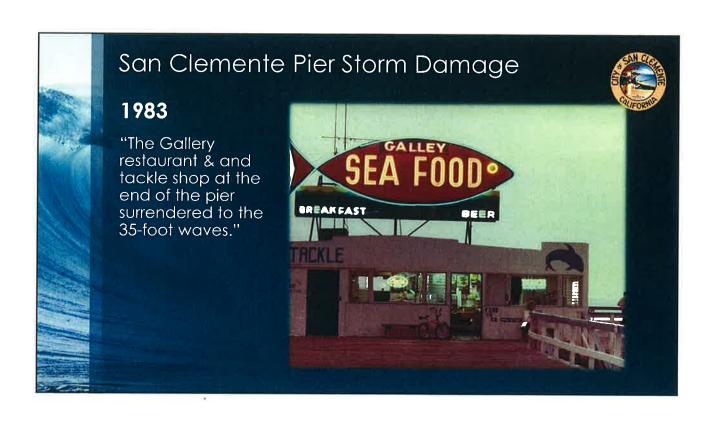


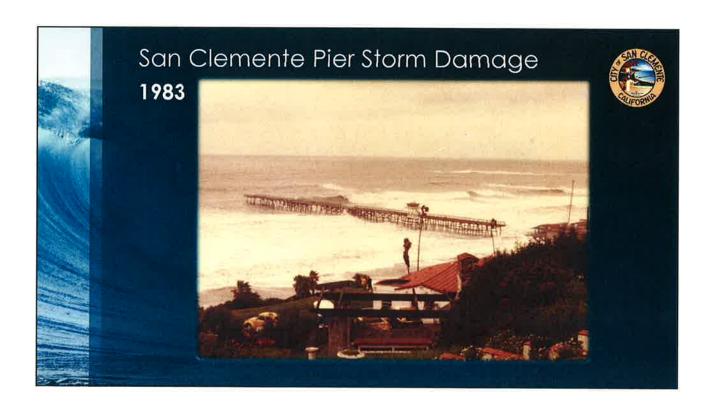












San Clemente Pier Storm Damage 1983



The City of San Clemente rehabilitated the original standing structure after 1983 storm with the help of Save Our Pier, raising \$90,000 and \$1 million from FEMA.

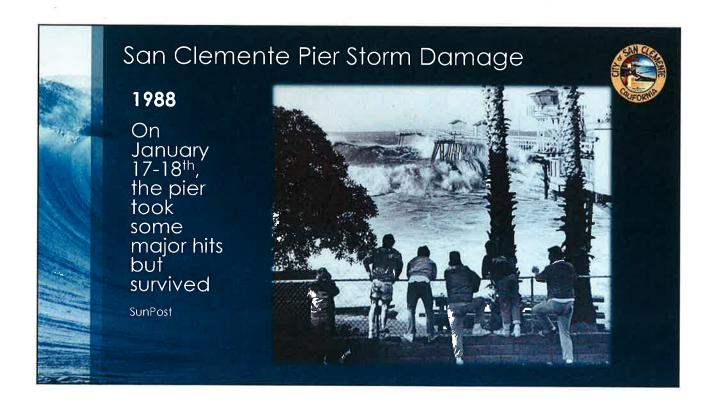
Wood pilings at the end of the Pier were replaced with steel pilings, and the destroyed portions were rebuilt.

1983 Recommended Plan Reconstruct for the Pier



- Stage I Develop construction plans to reconstruct the 80 foot section of the Pier between the base & remaining damaged structure. The use of salvageable materials was anticipated.
- Stage II Pier reconstruction for the rehabilitation of the damaged & separated section of the Pier.
- Stage III Reconstruction of approximately 350 feet of the Pier with steel piles that was completely destroyed during the recent storm.

1983 Reconstruction Funding for the Pier Stage | (Design & Planning) PIER RECONSTRUCTION COSTS 1983 Stage II (Mid-Pier Const.) Stage | Cost \$100,000 Stage II Cost 160,000 Stage III (End of Pier Const.) Sub-Total \$260,000 75% Federal Stage III Cost Reimbursement 560,000 Local Share TOTAL \$820,000 75% Federal Share 615,000 LOCAL SHARE \$205,000



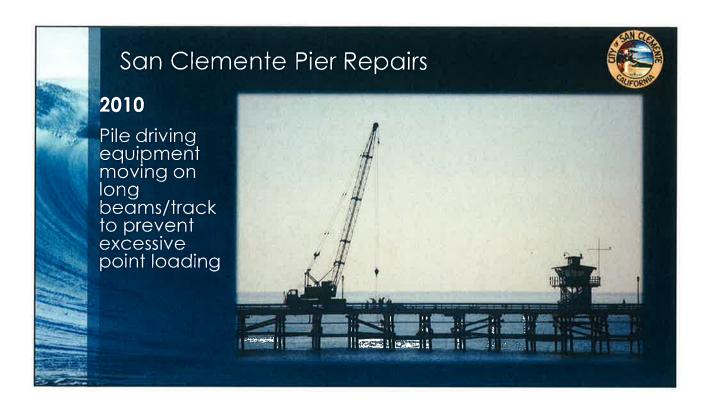
San Clemente Pier Storm Damage 1988

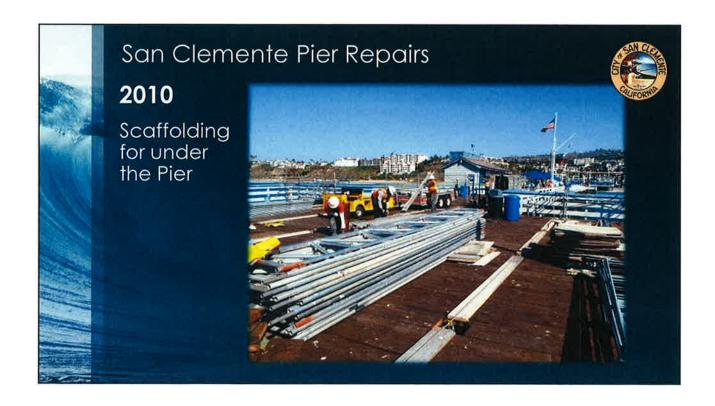
- with high tides
- Severe storm waves coincident with high tides caused severe beach erosion that undermined & endangered several San Clemente facilities along the beach.
- These facilities included Marine Safety, restrooms, concession buildings, the entrance to the pier, picnic shelter areas, access roads, the trash disposal area, and the utilities.
- Wave-driven debris acted as a battering ram destroying some pier piles.

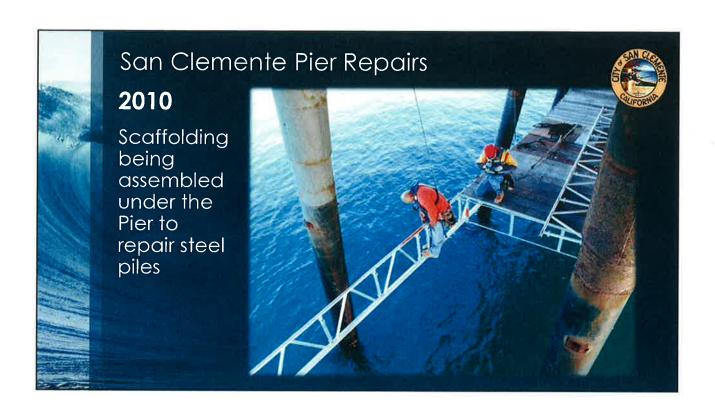
San Clemente 2010 Pier Repairs

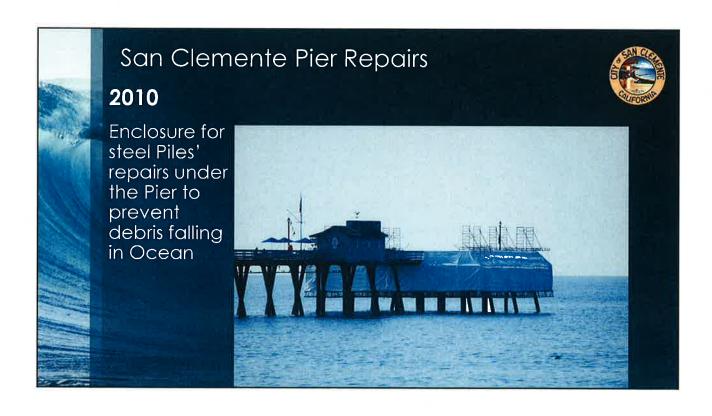


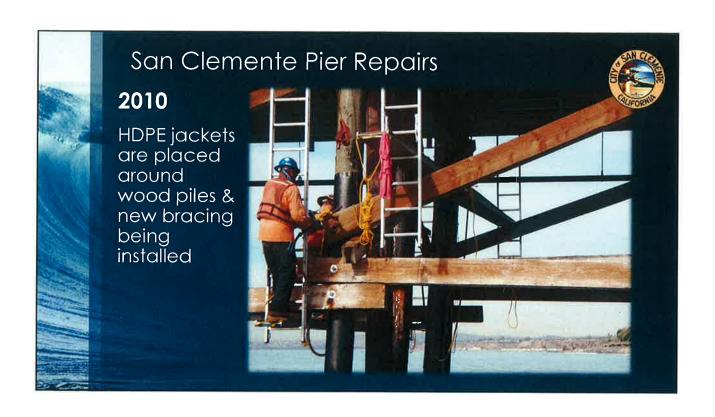
- Stringer repairs (8)
- Timber piles replacements and repairs (26)
- · Concrete piles replacements (8)
- Repair to protective coating on steel piles and pile caps (82)
- Steel pile caps repairs (22)
- Installation of an active Corrosion Protection (CP) system.
- Bracing repairs (4)
- Deck plank replacement (12,000 square feet)

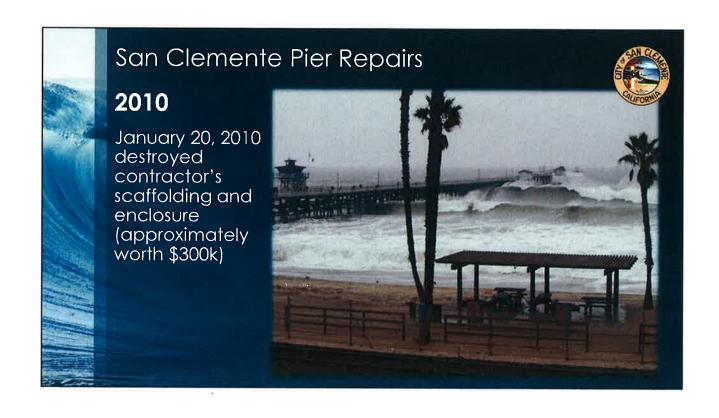












San Clemente Pier Asset Management Program



- Inspecting the Pier on a 5-6 Year cycle
- Proactive Maintenance, Rehabilitation & Replacement Program
- Proposing a Reserve for future and ongoing work
- Average of \$425k / year spent over last 16 years



Pier Challenges & Considerations



- Pier subject to constant surf, swells, wind and sand abrasions on the piles
- Pier directly exposed to Ocean swells entering from three main windows
- The more severe waves and storms hit the Pier between azimuths 275° and 285°

